

WE CLAIM:

1. A method for controlling a damping force of a damper, said method  
5 comprising:  
generating a first operating current as a function of a desired force  
level of the damping force;  
determining a temperature compensation as a function of an operating  
temperature of the damper; and  
10 applying the temperature compensation to the first operating current  
to generate a second operating current as a function of both the desired force level  
of the damping force and the operating temperature of the damper.
2. A device for controlling a damping force of a damper, comprising:  
15 a first module operable to generate a first operating current as a  
function of a desired force level of the damping force;  
means for determining a temperature compensation as a function of  
an operating temperature of the damper; and  
means for applying the temperature compensation to the first  
20 operating current to generate a second operating current as a function of both the  
desired force level of the damping force and the operating temperature of the  
damper.

3. A system, comprising:  
a damper operable to generate a damping force in response to a first  
operating current; and

5 a controller,  
wherein said controller is operable to generate a second operating  
current as a function of a desired force level of the damping force,  
wherein said controller is operable to determine a temperature  
compensation as a function of an operating temperature of the damper, and  
10 wherein said controller is operable to apply the temperature  
compensation to the second operating current to generate the first operating current  
as a function of both the desired force level of the damping force and the operating  
temperature of the damper.

15 4. The system of claim 3, wherein said damper includes  
magnetorheological fluid.

5. The system of claim 3, wherein said controller includes a module  
operable to generate the operating temperature equating an ambient temperature of  
20 the damper.

6. The system of claim 3, wherein said controller includes a module  
operable to generate the operating temperature equating a measured temperature of  
the damper.

25 7. The system of claim 3, wherein said controller includes a module  
operable to generate the operating temperature indicating an estimated damper  
temperature of said damper.

8. The system of claim 3, wherein said controller includes a module operable to determine a scale factor in response to a reception of a signal indicating the operating temperature of said damper, and operable to generate the first  
5 operating current as a product of the scale factor and the second operating current.

9. The system of claim 3, wherein said controller includes  
a first module operable to determine a set of scale factors and a set of  
offset values in response to a reception of a signal indicating the operating  
10 temperature of said damper, and  
a second module operable to determine a scale factor of the set of  
scale factors and an offset value of the set of offset values in response to a reception  
of a signal indicating a relative velocity of said damper.

10. The system of claim 9, wherein said controller is further operable to  
generate a third operating current as a product of the scale factor and the second  
operating current, and to generate the first operating current as a summation of the  
offset value and the third operating current.

11. The system of claim 9, wherein said controller is further operable to  
generate a third operating current as a summation of the second operating current  
and the offset value, and to generate the first operating current as a product of the  
scale factor and the third operating current.